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IN REPLY  
REFER TO

**Policy Number: DESC-X-P-2**

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**DoD Fuel Filter Element Standardization Policy**

**1. Supersession:** This is an initial issuance of DESC-X-P-2.

**1.1 General:** In accordance with DoD Directive 5101.8, the Director of the Defense Logistics Agency has been designated as the DoD Executive Agent (EA) for Bulk Petroleum and has re-delegated this responsibility to the Defense Energy Support Center (DESC). This interim policy was coordinated with and approved by the Bulk Petroleum EA Component Steering Group (CSG) and is issued to the Military Services as interim guidance pending formal publication in a DoD manual.

**1.2 Background:** The Bulk Petroleum EA CSG tasked the Equipment and Training Integrated Process Team (IPT) to study fuel filter standardization in accordance with the mandates of DoDD 5101.8. The Equipment & Training IPT conducted a Business Case Analysis which showed that mandating specific sizes of filter elements (coalescers and separators) used in future filter/separator vessels would facilitate standardization and interoperability, provide lower cost technology upgrades, and reduce the DoD logistics tail in support of contingency operations.

**2. Purpose:** The intent of this policy is to achieve DoD filter/separator element standardization through attrition as new military tactical bulk fuel handling equipment is procured to replace existing equipment or fulfill new requirements.

**3. New DoD Standard Coalescers and Separators Policy:** To achieve DoD standardization, all new fuel filter/separators shall use one of the following sizes of coalescers and separators:


Coalescer	Category 1	Category 2	Category 3
Specification	API/IP Specification 1581 (latest edition)	API/IP Specification 1581 (latest edition)	MIL-PRF-52308 (latest edition)
Category	M	M	M
Type	S	S	N/A
Diameter	6 in (152.4 mm)	6 in (152.4 mm)	3.75 in (101.6 mm)
Length	38 in (965.2 mm)	22 in (558.8 mm)	20 in (508.0 mm)
Flow	In-to-out	In-to-out	In-to-out
End Fitting	Threaded base 4-1/16" - 6UN - 2B Eff. length 0.750"	Threaded base 4-1/16" - 6UN - 2B Eff. length 0.750"	Open ended, both ends, 1.19", O-ring seal



Separator	Category 1	Category 2	Category 3
Specification	API/IP Specification 1581 (latest edition)	API/IP Specification 1581 (latest edition)	MIL-PRF-52308 (latest edition)
Material restriction	Paper shall not be used in separator elements	Paper shall not be used in separator elements	Drawing 19207/13216E2773
Diameter	6 in (152.4 mm)	6 in (152.4 mm)	5 in (127.0 mm)
Length	36 in (914.4 mm)	23 in (584.2 mm)	22.5 in (571.5 mm)
Flow	Out-to-in	Out-to-in	In-to-out
Mounting	Separators shall be designed for mounting on adapters with blunted Vee-type knife-edges. The end opposite the separator outlet shall consist of a blind cap equipped with a spider locating indentation.	Separators shall be designed for mounting on adapters with blunted Vee-type knife-edges. The end opposite the separator outlet shall consist of a blind cap equipped with a spider locating indentation.	Single open-end twist lock. Opposite end is blind cap with spider locating indentation, with 1.185" tapered boss to interface with 1.19" open end of coalescer.

The military petroleum Service Control Points will coordinate this policy document with their respective equipment procurement activities.

**4. Deviations:** Deviations from this policy should be kept to a minimum. On the rare occasion that new equipment configuration does not allow the use of the standard filter elements, the respective Service will notify the CSG.

  
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 Chairman  
 Component Steering Group